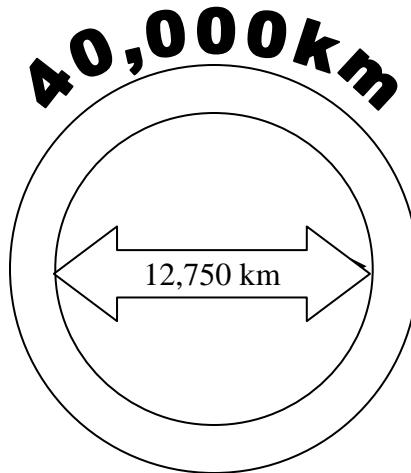


Intro to the Earth

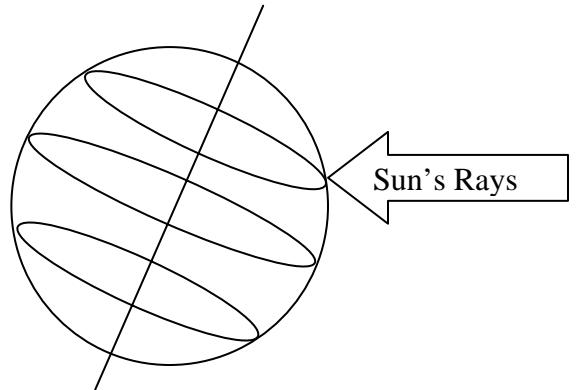
Vital Statistics

- Size →
- Density = 5.5 g/cm^3
- Mass = $5.976 \times 10^{24} \text{ kg}$
- Age $4.6 \times 10^9 \text{ yr (Ga)}$



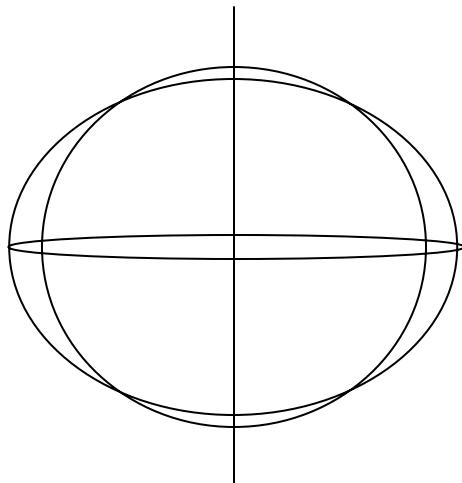
Motion

- Rotational velocity
 - 1037 mph at equator
 - 860 mph at our latitude
- Orbital velocity = 66,700 mph
- Galactic orbital vel. = $\sim 10x$ that



Axis Tilted 23.5° - causes seasons

- Equatorial Bulge
 - Oblate by $\sim 21\text{km}$
 - 0.3%
 - Pizza dough analogy
 - \therefore Earth is elastic

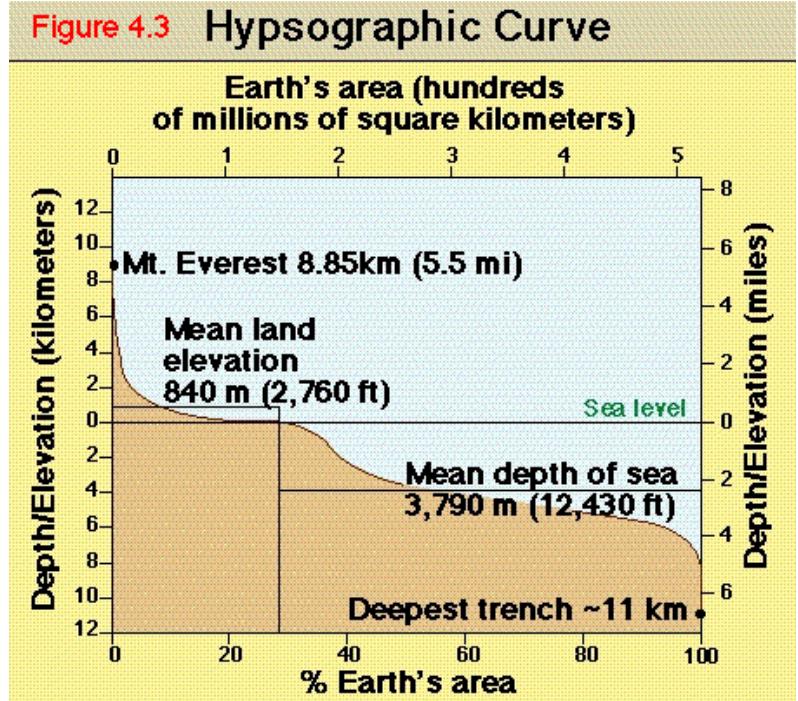


Surface Features

- 71% ocean
- ~3% ice

Everest climbed
1953 Hillary & Norgay

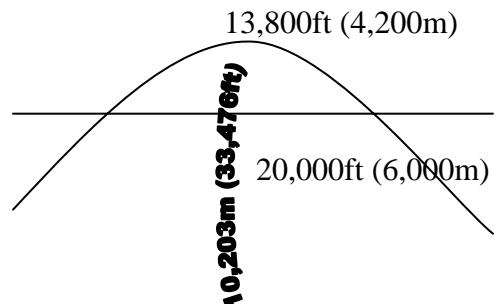
Challenger Deep
Mariannas Trench
1960 “Trieste”
Walsh & Piccard



Lowest point on land

- Dead Sea: -1,291ft (-393m) [Jordan & Israel]
- Death Valley: -282ft

Tallest Mountain
- Mauna Kea



Point farthest from earth's center

- Chimborazo, Ecuador
- 20,700 ft (6,310 m) + 21,000km oblateness